Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-25-09** **Date: 28-07-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer's Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-2018
Sample ID No	:	2018-07-25-09 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	26-07-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.52	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.3	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
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****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-25-09** **Date: 23-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer's Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-2018
Sample ID No	:	2018-07-25-09 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-07-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-25-09** **Date: 28-07-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer's Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample condition	:	Satisfactory
Date of Receipt	:	25-07-2018
Sample ID No	:	2018-07-25-09 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	354	354	2.4	97.6	90-100
3	20 mm	7149	7503	50.0	50.0	30-70
4	10 mm	4526	12029	80.2	19.8	10-35
5	4.75 mm	2388	14417	96.1	3.9	0-5
6	Pan	583	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-25-09** **Date: 27-07-2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer's Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 25-07-2018

Sample ID No : 2018-07-25-09 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 25-07-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	42	42	4.2	95.8	90-100	90-100	90-100	95-100
3	2.36 mm	191	233	23.3	76.7	60-95	75-100	85-100	95-100
4	1.18 mm	194	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	205	632	63.2	36.8	15-34	35-59	60-79	80-100
6	300 micron	214	846	84.6	15.4	5-20	8-30	12-40	15-50
7	150 micron	109	955	95.5	4.5	0-10	0-10	0-10	0-15
8	Pan	45	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-08-01-05** **Date: 02-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer's Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-2018
Sample ID No	:	2018-08-01-05/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	01-08-2018

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**65**	60 to 70
2	Softening Point, °C	**52.4**	Min. 40°C
3	Ductility, cm	**99**	Min. 75cm
4	Flash point, °C	**228.5**	Min. 220°C
	Fire point, °C	**248.5**	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-08-04** **Date: 13/08/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Name of Work : 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer's Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 08-08-2018

Sample ID No : 2018-08-08-04 /01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	06/08/2018	13/08/2018	150.22 X 150.24 X 150.27	22569	8.245	390.4	17.3	17.3
2	Cement Concrete Pavement	M20	06/08/2018	13/08/2018	150.28 X 150.29 X 150.30	22586	8.267	393.0	17.4	
3	Cement Concrete Pavement	M20	06/08/2018	13/08/2018	150.31 X 150.20 X 150.25	22577	8.309	386.1	17.1	

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Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-08-04** **Date: 13/08/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Name of Work : 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer's Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 08-08-2018

Sample ID No : 2018-08-08-04 /03

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	06/08/2018	13/08/2018	150.21 X 150.24 X 150.27	22568	8.294	426.5	18.9	17.9
2	Cement Concrete Pavement	M20	06/08/2018	13/08/2018	150.26 X 150.29 X 150.24	22583	8.228	386.2	17.1	
3	Cement Concrete Pavement	M20	06/08/2018	13/08/2018	150.28 X 150.20 X 150.25	22572	8.278	401.8	17.8	

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-09-04**

Date: 14/08/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Name of Work : 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer's Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 09-08-2018

Sample ID No : 2018-08-09-04 /01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	07/08/2018	14/08/2018	150.25 X 150.28 X 150.20	22580	8.254	388.4	17.2	17.5
2	Cement Concrete Pavement	M20	07/08/2018	14/08/2018	150.24 X 150.25 X 150.28	22574	8.230	390.5	17.3	
3	Cement Concrete Pavement	M20	07/08/2018	14/08/2018	150.25 X 150.24 X 150.30	22574	8.212	408.6	18.1	

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-09-04** **Date: 14/08/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Name of Work : 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer's Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 09-08-2018

Sample ID No : 2018-08-09-04 /03

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	07/08/2018	14/08/2018	150.20 X 150.24 X 150.19	22566	8.302	413.0	18.3	18.1
2	Cement Concrete Pavement	M20	07/08/2018	14/08/2018	150.28 X 150.27 X 150.28	22583	8.256	404.2	17.9	
3	Cement Concrete Pavement	M20	07/08/2018	14/08/2018	150.33 X 150.24 X 150.30	22586	8.272	408.8	18.1	

Note:
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2018-08-09-01** **Date: 10-08-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Name of Work : 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Date of Receipt : 09-08-18

Sample ID No : 2018-08-09-01/02

Type of Mix : BC (Bituminous Concrete)

Date of test : 09-08-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469	468
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.20	6.40
4	Average percentage	%	6.3	

Ward No 6

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-08-25-01** **Date: 27-08-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Name of Work	:	1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Date of Receipt	:	25-08-18
Sample ID No	:	2018-08-25-01/02
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	25-08-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	467	468
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.60	6.40
4	Average percentage	%	6.5	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-08-07-01** **Date: 08-08-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Name of Work	:	3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Date of Receipt	:	07-08-18
Sample ID No	:	2018-08-07-01/02
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	07-08-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	468	467
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.40	6.60
4	Average percentage	%	6.5	

AE ward no 6

FOR CIVIL Pro.

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Date.....

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-08-06-01**	**Date: 07-08-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.	
Name of Work	:	3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.	
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.	
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19	
Consultants	:	M/s Rudraprasad Consultants	
Date of Receipt	:	06-08-18	
Sample ID No	:	2018-08-06-01/02	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	06-08-18	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.00	6.20
4	Average percentage	%	6.1	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Ward No.6

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

FOR CIVIL Pro.

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Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2018-08-07-01** **Date: 08-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Name of Work	:	3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	07-08-2018
Sample ID No	:	2018-08-07-01/01
Type of Mix	:	Tack coat
Date of test	:	07-08-2018

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.785	0.752
4	Final weight of plate after application of tack Coat (c)	Kg	0.808	0.775
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
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Samples will be disposed after 90 days from the date of issue of test certificate

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2018-08-09-01** **Date: 10-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Name of Work	:	3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	09-08-2018
Sample ID No	:	2018-08-09-01/01
Type of Mix	:	Tack coat
Date of test	:	09-08-2018

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.779	0.746
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.769
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

Note:-
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2018-08-25-01** **Date: 27-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Name of Work	:	1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	25-08-2018
Sample ID No	:	2018-08-25-01/01
Type of Mix	:	Tack coat
Date of test	:	25-08-2018

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.79	0.75
4	Final weight of plate after application of tack Coat (c)	Kg	0.813	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

Note:-
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2018-08-06-01** **Date: 07-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Name of Work	:	3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-2018
Sample ID No	:	2018-08-06-01/01
Type of Mix	:	Tack coat
Date of test	:	06-08-2018

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-08-25-01**	**Date: 27-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.	
Name of Work	:	1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division.	
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.	
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19	
Consultants	:	M/s Rudraprasad Consultants	
Date of Receipt	:	25-08-2018	
Sample ID No	:	2018-08-25-01/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	25-08-2018	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.20	6.00
4	Average percentage	%	6.1	

FOR CIVIL Pro.

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Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-08-09-01**	**Date: 10-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.	
Name of Work	:	3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.	
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.	
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19	
Consultants	:	M/s Rudraprasad Consultants	
Date of Receipt	:	09-08-2018	
Sample ID No	:	2018-08-09-01/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	09-08-2018	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.00	6.00
4	Average percentage	%	6.0	

AE ward No 6
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-08-07-01** **Date: 08-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Name of Work	:	3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Date of Receipt	:	07-08-2018
Sample ID No	:	2018-08-07-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	07-08-2018

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.00	6.20
4	Average percentage	%	6.1	

AE Ward No 6

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-08-06-01** **Date: 07-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Name of Work	:	3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Date of Receipt	:	06-08-2018
Sample ID No	:	2018-08-06-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	06-08-2018

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.20	5.80
4	Average percentage	%	6.0	

AE ward No 6

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-08-03-07** **Date: 06-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2018
Sample ID No	:	2018-08-03-07/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	03-08-2018

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	12.2	11.98	10KN(min)
2	Marshal flow at 60°C, mm	3.58	3.49	2-4
3	Percent air Voids	4.97	4.55	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

Note:-
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FOR CIVIL Pro.
R KARTHIK RECHAN
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End of Report

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-08-03-07** **Date: 06-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2018
Sample ID No	:	2018-08-03-07/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	03-08-2018

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.8	Minimum Retained Coating 95%
2	98.5	1.5		
3	99.0	1.0		

Note:-
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-08-03-07** **Date: 06-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2018
Sample ID No	:	2018-08-03-07/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	03-08-2018
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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Quality Manager

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-08-03-07** **Date: 06-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2018
Sample ID No	:	2018-08-03-07/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	03-08-2018

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.9	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.4		
Strength	Aggregate Impact Value	22.9	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.62	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.18	Maximum 2%	IS:2386 Part III

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-08-04-05** **Date: 06-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	04-08-2018
Sample ID No	:	2018-08-04-05/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	04-08-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.8%	
Combined Flakiness and Elongation Index for WMM	11.5%	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-08-20-02** **Date: 22-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-2018
Sample ID No	:	2018-08-20-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	20-08-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.5%	
Combined Flakiness and Elongation Index for WMM	11.7%	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-07-28-10** **Date: 30-07-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	28-07-2018
Sample ID No	:	2018-07-28-10/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	28-07-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.0%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.7%	
Combined Flakiness and Elongation Index for WMM	21.7%	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-08-20-02** **Date: 22-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-2018
Sample ID No	:	2018-08-20-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	20-08-2018

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.4	305.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.5	70.6
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	232.5	234.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	23.7	23.1
6	Aggregate impact value (Mean of two tests)	Pecentage	23.4	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-07-28-10** **Date: 30-07-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	28-07-2018
Sample ID No	:	2018-07-28-10/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	28-07-2018

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.5	302.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.9	65.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	233.1	236.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.5
5	Aggregate impact value	(B/A)*100	22.8	21.5
6	Aggregate impact value (Mean of two tests)	Pecentage	22.2	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-08-23-01**	**Date: 24-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.	
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.	
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19	
Consultants	:	M/s Rudraprasad Consultants	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-08-2018	
Sample ID No	:	2018-08-23-01/02	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	23-08-2018	
Oven Dry Weight	:	10000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	100	100	1.0	99.0	95-100
22.4	3800	3900	39.0	61.0	60-80
11.2	1300	5200	52.0	48.0	40-60
4.75	900	6100	61.0	39.0	25-40
2.36	1400	7500	75.0	25.0	15-30
0.6	700	8200	82.0	18.0	8-22
0.075	1300	9500	95.0	5.0	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-08-23-01** **Date: 24-08-2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 23-08-2018

Sample ID No : 2018-08-23-01/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 23-08-2018

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	300	300	3.0	97.0	95-100
22.4	3100	3400	34.0	66.0	60-80
11.2	1900	5300	53.0	47.0	40-60
4.75	900	6200	62.0	38.0	25-40
2.36	1400	7600	76.0	24.0	15-30
0.6	1300	8900	89.0	11.0	8-22
0.075	800	9700	97.0	3.0	0-5

Note:-

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All information Furnished by Customer/ Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-07-28-10** **Date: 30-07-2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 28-07-2018

Sample ID No : 2018-07-28-10/02

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 28-07-2018

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	200	200	2.0	98.0	95-100
22.4	2500	2700	27.0	73.0	60-80
11.2	2500	5200	52.0	48.0	40-60
4.75	2200	7400	74.0	26.0	25-40
2.36	100	7500	75.0	25.0	15-30
0.6	800	8300	83.0	17.0	8-22
0.075	1400	9700	97.0	3.0	0-5

Note:-

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AE ward No 6

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Quality Manager

Page 1/1
End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-08-04-05** **Date: 06-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	04-08-2018
Sample ID No	:	2018-08-04-05/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	04-08-2018
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	300	300	3.0	97.0	95-100
22.4	2100	2400	24.0	76.0	60-80
11.2	3300	5700	57.0	43.0	40-60
4.75	1200	6900	69.0	31.0	25-40
2.36	500	7400	74.0	26.0	15-30
0.6	1800	9200	92.0	8.0	8-22
0.075	600	9800	98.0	2.0	0-5

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-08-04-05** **Date: 06-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	04-08-2018
Sample ID No	:	2018-08-04-05/02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	04-08-2018
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	300	300	3.0	97.0	95-100
22.4	1800	2100	21.0	79.0	60-80
11.2	2400	4500	45.0	55.0	40-60
4.75	3000	7500	75.0	25.0	25-40
2.36	100	7600	76.0	24.0	15-30
0.6	1300	8900	89.0	11.0	8-22
0.075	1000	9900	99.0	1.0	0-5

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AE ward NO6

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CIVIL Pro BANGALORE Sig..... Date.....

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-08-20-02** **Date: 21-08-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-2018
Sample ID No	:	2018-08-20-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	20-08-2018
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	296	296	3.0	97.0	95-100
22.4	2348	2644	26.4	73.6	60-80
11.2	2289	4933	49.3	50.7	40-60
4.75	2379	7312	73.1	26.9	25-40
2.36	1054	8366	83.7	16.3	15-30
0.6	515	8881	88.8	11.2	8-22
0.075	1001	9882	98.8	1.2	0-5

Note:-

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Authorized Signatory
Quality Manager

Page 1 of 1
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-08-20-02** **Date: 21-08-2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 20-08-2018

Sample ID No : 2018-08-20-02/02

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 20-08-2018

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	100	100	1.0	99.0	95-100
22.4	2000	2100	21.0	79.0	60-80
11.2	3500	5600	56.0	44.0	40-60
4.75	1400	7000	70.0	30.0	25-40
2.36	700	7700	77.0	23.0	15-30
0.6	1500	9200	92.0	8.0	8-22
0.075	300	9500	95.0	5.0	0-5

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Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-20-01** **Date: 24/08/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Name of Work : 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer's Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 20-08-2018

Sample ID No : 2018-08-20-01 /01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	17/08/2018	24/08/2018	150.22 X 150.24 X 150.27	22569	8.245	390.4	17.3	17.3
2	Cement Concrete Pavement	M20	17/08/2018	24/08/2018	150.28 X 150.29 X 150.30	22586	8.267	393.0	17.4	
3	Cement Concrete Pavement	M20	17/08/2018	24/08/2018	150.31 X 150.20 X 150.25	22577	8.309	386.1	17.1	

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-20-01** **Date: 24/08/2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Name of Work	:	1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer's Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-2018
Sample ID No	:	2018-08-20-01 /03
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	17/08/2018	24/08/2018	150.21 X 150.24 X 150.27	22568	8.294	404.0	17.9	18.1
2	Cement Concrete Pavement	M20	17/08/2018	24/08/2018	150.26 X 150.29 X 150.24	22583	8.228	415.5	18.4	
3	Cement Concrete Pavement	M20	17/08/2018	24/08/2018	150.28 X 150.20 X 150.25	22572	8.278	404.0	17.9	

Note:
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-21-01** **Date: 24/08/2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.
Name of Work	:	1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.
Customer's Reference	:	BBMP/EE/BTP/WO/61/2018-19
Consultants	:	M/s Rudraprasad Consultants
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-2018
Sample ID No	:	2018-08-21-01 /01
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	17/08/2018	24/08/2018	149.85 X 150.44 X 150.40	22543	8.215	390.0	17.3	17.6
2	Cement Concrete Pavement	M20	17/08/2018	24/08/2018	149.86 X 150.47 X 150.48	22549	8.162	410.4	18.2	
3	Cement Concrete Pavement	M20	17/08/2018	24/08/2018	151.22 X 150.47 X 150.69	22754	8.163	395.9	17.4	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-21-01** **Date: 25/08/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and RCC Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Name of Work : 1) Improvements to Roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer's Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 21-08-2018

Sample ID No : 2018-08-21-01 /03

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	18/08/2018	25/08/2018	150.11 X 150.32 X 150.54	22565	8.138	412.9	18.3	18.5
2	Cement Concrete Pavement	M20	18/08/2018	25/08/2018	150.22 X 150.76 X 150.11	22647	8.230	419.0	18.5	
3	Cement Concrete Pavement	M20	18/08/2018	25/08/2018	150.13 X 150.21 X 150.44	22551	8.330	421.7	18.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

AE ward No 6
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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****End of Report****

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-07-28-10** **Date: 30-07-2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Package-1, Includes 3 works of Rs.200.00 Lakhs 1) Improvements to roads and Drains at Sadiq Layout(Defence Layout) in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to roads and Drains at Manjunathnagara in Ward No.06 Byatarayanapura Sub Division. 3) Improvements of Drains and Rcc Culverts at Hegadenagara 9th Cross to 13th Cross in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.M.Venkatesh, Chikkanahalli, Vijayapura, Bangalore Rural 562135.

Customer Reference : BBMP/EE/BTP/WO/61/2018-19

Consultants : M/s Rudraprasad Consultants

Sample Condition : Satisfactory

Date of Receipt : 28-07-2018

Sample ID No : 2018-07-28-10/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 28-07-2018

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	3.0	97.0	95-100
22.4	2278	2576	25.8	74.2	60-80
11.2	2237	4813	48.1	51.9	40-60
4.75	2324	7137	71.4	28.6	25-40
2.36	1635	8772	87.7	12.3	15-30
0.6	626	9398	94.0	6.0	8-22
0.075	1393	10791	107.9	-7.9	0-5

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

AE Ward No 6

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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End of Report